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Relationship between the structural-group composition and physicochemical properties of insulating primers for the protection of oil and gas equipment

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Abstract

Nowadays, the increase in the quality and service period of bituminous insulating materials (BIM) operated under atmospheric or subsurface conditions becomes especially topical in Russia and all over the world due to increase in the power, material and labor consumption, especially for the construction and maintenance of bridgeworks, pipeline service and insulation of industrial and civil facilities. According to the data of RF State Committee for Supervision of Industrial and Mining Practices (Gostekhnadzor), the total length of pipelines (thousand km) by 2012 is 215 (main pipelines), 300 (field pipelines,) 385 (gas distribution pipelines) and 280 (heat supply networks). Thus, development of processes for modification of bitumens, taking into account more stringent requirements to the quality of bitumen composite materials for various purposes, in order to prepare primers and ground coatings with specified properties is a topical task for national economy. © IDOSI Publications, 2013.

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Keywords

Bituminous insulating materials, Component composition, Durability of structures, Structural group composition